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Applicant(s): Nicholas M. Dean et al.

Title: OLIGONUCLEOTIDES FOR ENHANCED BIOAVAILABILITY

Serial No.: 09/403,539

Filed: January 4, 2000

Docket No.: ISIS-3013 (PKL/jjkeeler)

Date Sent: April 19, 2000



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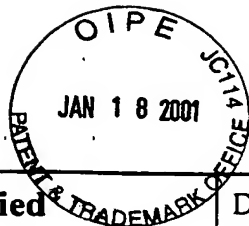
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Sheet 1 of 9

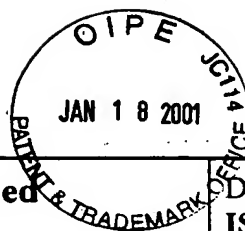
Form PTO-1449 Modified List of Patent and Publications Cited by Applicant (Use several sheets if necessary) U.S. Department of Commerce Patent and Trademark Office		Docket No. ISIS-3013	Serial No. 09/403,539
		Applicant Nicholas M. Dean et al.	
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
	AA	Agrawal et al. (eds.), "Methods of Molecular Biology", in <i>Protocols for Oligonucleotide Conjugates</i> , Agrawal, S. (ed.), Humana Press, New Jersey, 1994, Vol. 26, 1-72	
	AB	Agrawal, S. et al., "Pharmacokinetics, biodistribution, and stability of oligodeoxynucleotide phosphorothioates in mice", <i>Proc. Natl. Acad Sci.</i> , 1991, 88, 7595-7599	
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	AE	Berge, S.M. et al., "Pharmaceutical Salts", <i>J. Pharm. Sci.</i> , 1977, 66, 1-19	
	AF	Block, L., "Medicated Applications", <i>Remington's Pharmaceutical Sciences</i> , 18th Ed., Gennaro (ed.), Mack Publishing Co., Easton, PA, 1990, Ch. 87, 1596-1614	
	AG	Brunton, L. L., "Agents Affecting Gastrointestinal Water Flux and motility; Emesis and Antiemetics; Bile Acids and Pancreatic Enzymes", <i>Goodman & Gilman's The Pharmacological Basis of Therapeutics</i> , 9th Ed., Hardman et al. (Eds.), McGraw-Hill, New York, 1996, Chapter 38, 934-935	
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	AO	El-Hariri, L.M. et al., "The Mitigating Effects of Phosphatidylcholines on Bile Salt- and Lysophosphatidylcholine-induced Membrane Damage", <i>J. Pharm. Pharmacol.</i> , 1992, 44, 651-654	
	AP	Geary, R.S. et al., "Characterization of Ethiofos Absorption in the Rat Small Intestine", <i>Biopharmaceutics & Drug Disposition</i> , 1991, 12, 261-274	
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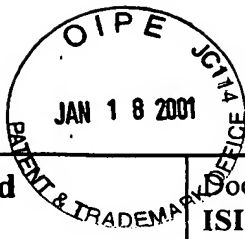
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	AZ	Kornberg, A., <i>DNA Replication</i> , W.H. Freeman and Co., San Francisco, 1980, 75-77	
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	BI	Manoharan M. et al., "Cholic Acid-Oligonucleotide Conjugates for Antisense Applications", <i>Bioorganic Med. Chem. Letts.</i> , 1994 , 4, 1053-1060	
	BJ	Martin, P., "Ein neuer Zugang zu 2'-O-Alkylribonucleosiden und Eigenschaften deren Oligonucleotide", <i>Helvetica Chemica Acta</i> , 1995 , 78, 486-504 (English summary included)	
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	BL	Miyao, T. et al., "Stability and Pharmacokinetic Characteristics of Oligonucleotides Modified at Terminal Linkages in Mice", <i>Antisense Res. & Dev.</i> , 1995 , 5, 115-121	
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	BN	Nairn, J.G., "Solutions, Emulsions, Suspensions and Extracts", <i>Remington's Pharmaceutical Sciences</i> , 18th Ed., Gennaro (ed.), Mack Publishing Co., Easton, PA, 1990 , Ch. 83, 1519-1544	
	BO	Nielsen, P.E. et al., "Sequence-Selective Recognition of DNA by Strand Displacement with a Thymine-Substituted Polyamide", <i>Science</i> , 1991 , 254, 1497-1500	
	BP	Nies, A.S. et al., "Principles of Therapeutics", <i>Goodman & Gilman's The Pharmacological Basis of Therapeutics</i> , 9th Ed., Hardman et al. (eds.), McGraw-Hill, New York, NY, 1996 , Ch. 3, 43-62	
	BQ	Oberhauser, B. et al., "Effective incorporation of 2'-O-methyl-oligonucleotides into liposomes and enhanced cell association through modification with thiocholesterol", <i>Nucl. Acids Res.</i> , 1992 , 20, 533-538	
	BR	Porter, S.C., "Coating of Pharmaceutical Dosage Forms", <i>Remington's Pharmaceutical Sciences</i> , 18th Ed., Gennaro (ed.), Mack Publishing Co., Easton, PA, 1990 , Ch. 90, 1666-1675	
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	BS	Robertson, D., "Chrohn's trial shows the pros of antisense", <i>Nature Biotech.</i> , 1997, 15, 209	
	BT	Rudnic, E. et al., "Oral Solid Dosage Forms", <i>Remington's Pharmaceutical Sciences</i> , 18th Ed., Gennaro (ed.), Mack Publishing Co., Easton, PA, 1990, Ch. 89, 1633-1665	
	BU	Saison-Behmoaras, T. et al., "Short modified antisense oligonucleotides directed against Ha-ras point mutation induce selective cleavage of the mRNA and inhibit T24 cells proliferation", <i>EMBO J.</i> , 1991, 10, 1111-1118	
	BV	Shea, R.G. et al., "Synthesis, hybridization properties and antiviral activity of lipid-oligodeoxynucleotide conjugates", <i>Nucl. Acids Res.</i> , 1990, 18, 3777-3783	
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	BX	Takahashi, H. et al., "The Use of a Perfluorochemical Emulsion as a Bascular Perfusate in Drug Absorption", <i>J. Pharm. Pharmacol.</i> , 1988, 40, 252-257	
	BY	Takakura, Y. et al., "Uptake Characteristics of Oligonucleotides in the Isolated Rat Liver Perfusion System", <i>Antisense & Nuc. Acid Drug Dev.</i> , 1996, 6, 177-183	
	BZ	van Berge-Henegouwen, G.P., "Pharmacology of Chenodeoxycholic Acid", <i>Gastroenterology</i> , 1977, 73, 300-309	
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	CC	Wahlestedt, C. et al., "Modulation of Anxiety and Neuropeptide Y-Y1 Receptors by Antisense Oligodeoxynucleotides", <i>Science</i> , 1993, 259, 528-531	
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	CE	4,309,404	01/05/82	DeNeale et al.	424	21
	CF	4,309,406	01/05/82	Guley et al.	424	21
	CG	4,426,330	01/17/84	Sears	260	403
	CH	4,534,899	08/13/85	Sears	260	403
	CI	4,556,552	12/03/85	Porter et al.	424	32
	CJ	4,689,320	08/25/87	Kaji	514	44
	CK	4,704,295	11/03/87	Porter et al.	427	3
	CL	4,806,463	02/21/89	Goodchild et al.	435	5
	CM	4,835,263	05/30/89	Nguyen et al.	536	27
	CN	5,004,810	04/02/91	Draper	536	27

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Examiner Initial	CO	Document No.	Date	Country	Translation YES NO	
	CO	WO 92/20823	11/26/92	PCT	X	
	CP	WO 93/24510	12/09/93	PCT	X	
	CQ	WO 94/26764	11/24/94	PCT	X	
	CR	WO 96/20732	07/11/96	PCT	X	
	CS	WO 96/32496	10/17/96	PCT	X	
	CT	WO 96/34008	10/31/96	PCT	X	
	CU	WO 97/05267	02/13/97	PCT	X	

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	CV	5,013,556	05/07/91	Woodle et al.	424	450
	CW	5,034,506	07/23/91	Summerton et al.	528	391
	CX	5,087,617	02/11/92	Smith	514	44
	CY	5,098,890	03/24/92	Gerwartz et al.	514	44
	CZ	5,108,921	04/28/92	Low et al.	435	240.1
	DA	5,135,917	08/04/92	Burch	514	44
	DB	5,138,045	08/11/92	Cook et al.	536	27
	DC	5,166,195	11/24/92	Ecker	514	44
	DD	5,194,428	03/16/93	Agrawal et al.	514	44
	DE	5,212,295	05/18/93	Cook	536	26.7
	DF	5,213,804	05/25/93	Martin et al.	424	450
	DG	5,218,105	06/08/93	Cook et al.	536	25.31
	DH	5,227,170	07/13/93	Sullivan	424	450
	DI	5,242,906	09/07/93	Pagano et al.	514	44
	DJ	5,264,221	11/23/93	Tagawa et al.	424	450
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	DR	5,395,619	03/07/95	Zalipsky et al.	424	450
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	DU	5,457,191	10/10/95	Cook et al.	536	27.13
	DV	5,459,127	10/17/95	Felgner et al.	514	7
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	EF	5,534,496	07/09/96	Lee et al.	514	17
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	EK	5,547,932	08/20/96	Curiel et al.	435	65
	EL	5,554,746	09/10/96	Ravikumar et al.	540	200
	EM	5,556,948	09/17/96	Tagawa et al.	530	391.9
	EN	5,571,902	11/05/96	Ravikumar et al.	536	22.1
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	ER	5,587,361	12/24/96	Cook et al.	514	44
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